



Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)


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## The Eastern Iowa DX Bulletin

For July 28, 2023 to August 4, 2023

**Craig Fastenow, KØCF, Editor**

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article. The articles are ordered by the entity's *official* callsign prefix, callsigns used are in **bold**, and dates of operation are highlighted in **red**. Hot links are provided for QSL and other information wherever possible. Articles will remain in *The Bulletin* while active with a 5-week maximum.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

**Quick jump to:**

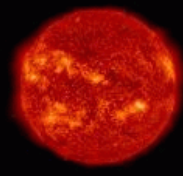
[Propagation](#)

[Contest Calendar](#)



### Solar-Terrestrial Data

31 Jul 2023 1400 GMT  
 SFI: 174 SN: 185  
 A-Index: 9  
 K-Index: 2  
 X-Ray: C1.8  
 304Å: 153.8 @ SEM  
 Ptn Flx: 211  
 Elc Flx: 13500  
 Aurora: 3/n=1.99  
 Mag (Bz): -4.0  
 Solar Wind: 381.2  
 Geomag Field QUIET  
 Sig Noise Lvl S1-S2  
 Current Solar Image



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**1AØ, SOV. MILITARY ORDER OF MALTA.** A large multi-national team (EA5C, EA5EL, EA5KA, EA5KM, EA5RM, EA5Z, EA7KE, EA7R, EA7X, F2JD, IK5RUN, IN3ZNR, IZØNIC, IZ4AKS, JH4RHF and RA9USU) will be active again as **1AØC** from the amateur radio station of the Italian Relief Corps of the Order of Malta at the Magistral Villa on the Aventine Hill from **July 26th to August 2nd**. Details will be available on <http://www.1a0c.com/>. As per tradition, this activity will be associated with a charity project. All the proceeds and donations generated by the DXpedition will be used to support the Order of Malta's reconstruction projects in the areas of Romagna heavily affected by the recent floods.

-[425DXN # 1681 July 22, 2023] (0721-0804)

**3C, EQUATORIAL GUINEA.** Ersoy, TA2OM is QRV as **3C3CA** from Bioko Island, IOTA AF-010, **until July 31st**. QSL via LoTW.

-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0804)

**3D2, FIJI.** BJ, **3D2BJ** (WA7WJR) expected to depart Rotuma on July 19th at 0600 UTC. He "will try to stop in the Mamanuca Group (OC-121) and operate from there" on his way to Viti Levu (OC-016), Fiji. Follow his voyages on <https://www.questsofdiscovery.com/current-position>. QSL via LoTW or direct to [WA7WJR](#);

cards will be sent out when he returns to the US sometime in September.

-[425DXN # 1681 July 22, 2023] (0721-0811)

**9A, CROATIA.** Alex, **9A6SAI** will operate SSB from three different islands, all counting for IOTA group EU-110, during the IOTA contest (**July 29th-30th**): Sveti Ivan na Pucini (July 29th starting around 1700 UTC), Sveti Ivan (during the night), and Sturag (July 30th). QSL via LoTW. [TNX NG3K]

-[425DXN # 1682 July 29, 2023] (0728-0804)

**9A, CROATIA.** IK6VXO and others will be active as **9A8DV** from Drvenik Veli Island (EU-016) from **July 27th to August 2nd**, including an entry in the IOTA contest (July 29th-30th). QSL via [IK6VXO](#). [TNX NG3K]

-[425DXN # 1682 July 29, 2023] (0728-0804)

**9A, CROATIA.** Brano, OM2FY, operates as **9A/OM2FY** from Pag Island (EU-170) from **July 26th to August 1st**; before and after the IOTA Contest from a WWFF reference. QSL via [OM2FY](#).

-[DXNL # 2364 July 26, 2023] (0728-0804)

**9A, CROATIA.** Look for **9A7YY**, **9A/S53Z**, **9A/S54W**, **9A/S58MU**, **9A/S5ØØ** and **9A/S5ØX** to be active from Vis Island (EU-016) from **July 24th until August 1st**. They will operate CW and SSB on 80-10 meters and will also be active during the IOTA Contest. QSLs via the bureau, eQSL, or direct to home calls. [TNX S58MU]

-[425DXN # 1680 July 15, 2023] (0721-0804)

**BV, TAIWAN.** Kenicho, JP1RIW is QRV as **BMØQSO** from New Taipei City **until the end of 2023**. Activity is on the HF bands using mostly FT8. QSL via bureau.

-[ARRL DX Bulletin # 28 July 13, 2023] (0714-0804)

**BY, CHINA.** A group of operators will be QRV as **B2/BY1AA** from Xiaochangshan Island, IOTA AS-158, as a Multi/Single, High-Power entry in the RSGB IOTA contest (**July 29th-30th**). QSL via [BA4EG](#).

-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0804)

**C2, NAURU.** "The return of **C21TS** is confirmed", Phill, 3D2TS (FK1TS) posted to his website on July 3rd. He expects to be back on Nauru on **July 22nd**, but "as I'll be starting a new job, radio will be secondary, and I also don't know where I will be staying yet. But I'd hope to be **on the air by the start of August** in my spare time and weekends. Antenna wise, let's wait and see". Updates will be posted to <https://www.hardstaff.com/>.

-[425DXN # 1679 July 8, 2023] (0721-0818)

**CN, MOROCCO.** Michel, F5RLR, is currently active as **CN2DX** on 40-10m (CW, SSB) **until August 16th**. QSL via [F5RLR](#).

-[DXNL # 2364 July 26, 2023] (0728-0818)

**CN, MOROCCO.** Taking part in the annual Throne Day's celebrations, special callsign **CN24M** will be active from **July 26th to August 6th**. QSL via [CN8WW](#). Throne Day commemorates the enthronement of the incumbent monarch; since 1999, it has been celebrated on July 30th.

-[425DXN # 1681 July 22, 2023] (0721-0811)

**CT, PORTUGAL.** Members of the Associacao de Radioamadores da Beira Alta (CT1ARB) will operate special callsign **CQ7JMJ** on **August 1st-6th** in celebration of World Youth Day (Jornada Mundial da Juventude) to be held in Lisbon. Also active will be CS23WYD (QSL via [CT2FFC](#) and LoTW).

-[425DXN # 1682 July 29, 2023] (0728-0811)

**CX, URUGUAY.** Special event station **CX9ØRCU** will be active on **August 1st-31st** to celebrate the 90th anniversary of Radio Club Uruguayo (CXA1AA), founded on August 23,

1933. QSL via the bureau, direct, or via LoTW.  
-[425DXN # 1681 July 22, 2023] (0728-0901)

**DL, GERMANY.** Special callsign **DLØSOP** will be active on **July 1st-31st** for the 65th edition of the Sea of Peace Award (see <https://dl0sop.darc.de/> for full details). QSL via [ClubLog's OQRS](#), LoTW, eQSL, or direct to [DL4SVA](#).  
-[425DXN # 1677 June 24, 2023] (0630-0804)

**DU, PHILIPPINES.** Ops DU9XL, DU9XM, DU9HRG, DU9CA, DV9DDX, DV9ARA and DV9BPI will be on the air as **DX9EVM** from Mindanao Island (OC-130) for the 2023 RSGB IOTA Contest (**July 29th-30th**). QSL via the bureau or direct.  
-[ARRL DX Bulletin # 27 July 6, 2023] (0728-0804)

**DXCC TOP TWENTY.** Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of July 27, 2023:

|          |                    |          |                                  |
|----------|--------------------|----------|----------------------------------|
| 1. P5    | DPRK (North Korea) | 11. 3Y/B | Bouvet Island                    |
| 2. BS7H  | Scarborough Reef   | 12. ZS8  | Prince Edward & Marion Islands   |
| 3. CEØX  | San Felix Islands  | 13. KH4  | Midway Island                    |
| 4. BV9P  | Pratas Island      | 14. VKØM | Macquarie Island                 |
| 5. KH7K  | Kure Island        | 15. PYØS | Saint Peter And Paul Rocks       |
| 6. KH3   | Johnston Island    | 16. PYØT | Trindade & Martim Vaz Islands    |
| 7. FT/G  | Glorioso Island    | 17. KP5  | Desecheo Island                  |
| 8. 3Y/P  | Peter 1 Island     | 18. VP8S | South Sandwich Islands           |
| 9. FT5/X | Kerguelen Island   | 19. KH5  | Palmyra & Jarvis Islands         |
| 10. YVØ  | Aves Island        | 20. ZL9  | New Zealand Subantarctic Islands |

For the complete list, see <https://clublog.org/mostwanted.php>  
-[KØCF July 27, 2023] (0728-0811)

**EA6, BALEARIC ISLANDS.** Special callsign **EE6RRC** celebrates the Russian Robinson Club's 30th anniversary. It is operated by Jose, EC6DX **until July 31st**. QSL only via LoTW.  
-[425DXN # 1681 July 22, 2023] (0721-0804)

**F, FRANCE.** F4FET, F4HHL, F5RAB and F8GGV will participate in the IOTA Contest (**July 29th-30th**) as **TM5K** from Ouessant Island (EU-065). Before the contest they will operate SSB, CW, RTTY and FT8 on 80-6 meters. QSL via [F8GGV](#). [TNX NG3K]  
-[425DXN # 1680 July 15, 2023] (0728-0804)

**F, FRANCE.** Larry, F6FVY and Alain, F6BFH will be active again as **TM5OL** from Oleron Island (EU-032) for the RSGB IOTA Contest (**July 29th-30th**). QSL via [F6AJA](#). [TNX F6AJA]  
-[425DXN # 1679 July 8, 2023] (0728-0804)

**F, FRANCE.** F5LPY Bernard, F8EFU Phil, and F4IZC Steph mark the Grand Est Mondial Air Ballons 2023 event with the special callsign **TM23MAB**. QRV from **July 17th to 31st** on 160-10m (CW, SSB, digital) and via QO-100. QSL via [F5LPY](#), LoTW.  
-[DXNL # 2363 July 19, 2023] (0721-0804)

**FR, REUNION.** Philippe, FR8UA and Anne, FR8TZ will be QRV as **TOØGL** during the RSGB IOTA contest (**July 29th-30th**). QSL via LoTW.  
-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0804)

**G, ENGLAND.** Members of the Fort Purbrook ARC will be QRV with special event station **GB1PF** on **July 29th and 30th** from the historic Palmerston Forts. Activity will be on the HF bands using CW and SSB, and PSK on 20 meters. QSL via operators' instructions.  
-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0804)

**GD, ISLE OF MAN.** Operators G2NV and G6AD are QRV as **GD6AD** **until July 31st**. This includes being an entry in the RSGB IOTA contest (July 29th-30th). QSL via LoTW.  
-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0804)

**GD, ISLE OF MAN.** Keith, G3TTC plans to be QRV as **GD3TTC** near Onchan from **July 26th to 29th**. Activity will be holiday style on 40 to 10 meters using SSB. This includes being an entry in the upcoming RSGB IOTA contest. QSL to [G3TTC](#).

-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0804)

**GU, GUERNSEY.** Callsigns **MU/ON6EF/p** and **MU/ON1BN/p** are expected to be active from Herm Island (EU-114) on **July 28th**. They will then move to the main island of Guernsey, where they will participate in the IOTA Contest (**July 29th-30th**) as **GU6EFW**. QSL via [ON6EF](#) and eQSL.

-[425DXN # 1682 July 29, 2023] (0728-0804)

**HL, SOUTH KOREA.** Members of the Gwangju DX Club are QRV as **D73G** from Paegya Island, IOTA AS-060, **until July 30th**. Activity is on 160 to 6 meters using CW, SSB, FT8, and FT4. QSL via [HL4CCM](#).

-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0804)

**HL, SOUTH KOREA.** Wouter, PB1WL plans to be QRV as **HL4/PB1WL** from **July 17th to August 16th**. QSL to [PB1WL](#).

-[ARRL DX Bulletin # 28 July 13, 2023] (0714-0818)

**I, ITALY.** Celebrating the centenary of the National Park of Abruzzo, Lazio and Molise, special callsign **II6PN** will be in use between **August 1st and October 31st**, with main activity expected to take place on **September 1st-17th**. QSL via [ClubLog's OQRS](#), LoTW, eQSL, or via [IK6IHU](#). A certificate will be available, see <https://www.qrz.com/db/II6PN> for the details.

-[425DXN # 1682 July 29, 2023] (0728-0901)

**I, ITALY.** A group of operators will be QRV as **IP1X** from Gallinara Island, IOTA EU-083, during the RSGB IOTA contest (**July 29th-30th**) as a Multi Op/Low Power entry. Activity will be on 80 to 10 meters using CW and SSB. QSL via [IU1JCZ](#).

-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0804)

**I, ITALY.** Seven operators (IK7WDS, IU7EHF, IW7DMH, IW7DOL, IZ7AUH, IZ7LDC and IZ8EGM) will be active as **IJ7DX**, including the IOTA Contest (**July 29th-30th**), and **IJ7SAT** (on QO-100, LEO and MEO satellites) from San Pietro Island (EU-073) on **July 28th-30th**. QSL via [ClubLog's OQRS](#).

-[425DXN # 1680 July 15, 2023] (0728-0804)

**I, ITALY.** Francesco, IK6QON will be active holiday style as **IA5/IK6QON** from Isola del Giglio (EU-028) on **July 22nd-31st**. He will operate CW and SSB on the HF bands, with some activity during the IOTA Contest.

-[425DXN # 1681 July 22, 2023] (0721-0804)

**ISØ, SARDINIA.** Giuseppe, IK5WWA will be active as **IMØC** from San Pietro Island (EU-165) on **July 16th-30th**. He will be QRV on 40-2 meters, hopefully also on 80m. QSL via [IK5WWA](#).

-[425DXN # 1680 July 15, 2023] (0714-0804)

**JA, JAPAN.** **JA1QQU/6** will be active from Yoron Island (AS-023) on **July 27th-30th**.

Look for him on 10 and 6 meters FT8 between 2300-0200 UTC, and again between 1000-1400 UTC. QSL via [JA1QQU](#), LoTW and eQSL.

-[425DXN # 1681 July 22, 2023] (0721-0804)

**JA, JAPAN.** Take, JI3DST will be active from the Miyako Islands (AS-079) from **July 20th to August 2nd**. He will operate SSB and CW as **JS6RRR**, **JJ5RBH/6** and **JI3DST/6** (including participation in the IOTA Contest **July 29th-30th**), as well as **JI3DST/p** and **JJ5RBH/p** on FT8. The QSOs will be made available for ClubLog and LoTW Matching on the IOTA website.

-[425DXN # 1679 July 8, 2023] (0714-0804)



**JD1/M, MINAMI TORISHIMA.** Take, JG8NQJ is QRV as **JG8NQJ/JD1** until October 19th. Activity is in his spare time on 17, 15, 12, and 10 meters. When active using FT8, send his signal strength report, not the grid square. QSL via [JA8CJY](#).

-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0825)

**K, UNITED STATES.** N4CW and W4TMO will participate in the IOTA contest (July 29th-30th) as **K1IMI** from either Bailey Island (NA-137) or Little Deer Isle (NA-055). QSL direct to [N4CW](#). [TNX NG3K]

-[425DXN # 1682 July 29, 2023] (0728-0804)

**K, UNITED STATES.** During the RSGB IOTA Contest (July 29th-30th), Jeff, W7BRS plans to operate from the **NN7SS** station located on Vashon Island (NA-065). This will be a single op, hi-power effort. QSL via [K6UFO](#).

-[ARRL DX Bulletin # 27 July 6, 2023] (0728-0804)

**K, UNITED STATES.** K3LR hosts the special event callsign **W3Y** and young operators on July 29th for the Dave Kalter Memorial Youth DX Adventure. QSL via [AB8YK](#).

-[DXNL # 2364 July 26, 2023] (0728-0804)

**K, UNITED STATES.** John, **WB8YJF** will be active again from Ocracoke Island (NA-067) from July 22nd to August 4th, including an entry in the RSGB IOTA Contest (July 29th-30th). He will operate CW, FT8/FT-4, RTTY, and some SSB. QSL via [WB8YJF](#); he will also upload his log to LoTW and hopefully ClubLog. [TNX NG3K]

-[425DXN # 1679 July 8, 2023] (0721-0804)

**KL, ALASKA.** Tim, NL8F, celebrates the 30th anniversary of the Russian Robinson Club (RRC) with the callsign **KL7RRC** from Unalaska Island (NA-059) until July 31st. QSL via [N7RO](#).

-[DXNL # 2364 July 26, 2023] (0728-0804)

**LX, LUXEMBOURG.** Special callsign **LX9ØRTL** celebrates the 90th anniversary since Radio Luxembourg made its first long wave broadcast. It will be used by various LX operators from July 1st until the end of the year. Look for activity on the HF bands SSB, CW and digital modes, as well as via satellite. All QSOs will be confirmed automatically via the DARC bureau; the logs will be uploaded to ClubLog, LoTW and eQSL on a regular basis. See <https://www.qrz.com/db/LX90RTL> for more information.

-[425DXN # 1675 June 10, 2023] (0630-0804)

**OH, FINLAND.** Jarno, OH6NJ will be active as **OH6NJ/8** from Hailuoto Island (EU- 184) on July 24th-31st. He will operate CW, SSB and FT8 mainly on the higher bands. QSL via [OH6NJ](#). [TNX DX World]

-[425DXN # 1680 July 15, 2023] (0721-0804)

**OK, CZECH REPUBLIC.** Special event station **OL3ØØSANTINI** is QRV until December 31st to commemorate Czech architect Jan Blazej Santini-Aichel who was famous for what came to be known as the Czech Baroque Gothic architectural style. QSL via operators' instructions.

-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0825)

**OY, FAROE ISLANDS.** Carsten, **OY1CT** will be a Single Op/All Band entry from Streymoy Island, IOTA EU-018, in the RSGB IOTA contest (July 29th-30th). QSL to [OY1CT](#).

-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0804)

**OZ, DENMARK.** Frank, [DL2SWW](#) and Gaby, [DF9TM](#) are QRV as **5Q5W** and **OV9M**, respectively, from Vendsyssel-Thy, IOTA EU-171, until July 31st. QSL to home calls.

-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0804)

**OZ, DENMARK.** Ron, DL1RNW will be active as **OZ/DL1RNW** from Sandkas (WWL JO75jg) on Bornholm Island (EU-030) from **July 23rd to August 5th**. He will be QRV on the HF bands and 6 meters. QSL via eQSL.

-[425DXN # 1680 July 15, 2023] (0721-0804)

**PA, NETHERLANDS.** Special callsign **PG100N** celebrates the centenary of the lighthouse located at Noordwijk aan Zee. Look for activity from **August 1st to September 11th**, especially during the International Lighthouse/Lightship Weekend (August 19th-20th) and the Open Monument Day (September 9th-10th). QSL via the bureau to [PA7DA](#).

-[425DXN # 1682 July 29, 2023] (0728-0901)

**PA, NETHERLANDS.** Dutch ops PA2LO, PA3EYC, PA3GRM, PC3M, PE1KWH and PH3T plan to activate **PI4AMF/P** from Schouwen-Duiveland (EU-146) in the RSGB IOTA Contest (**July 29th-30th**). This will be a multi-two effort. QSL via [PA3EYC](#).

-[ARRL DX Bulletin # 27 July 6, 2023] (0728-0804)

**PA, NETHERLANDS.** Marco DJ4MH, Chris DK2CL, Kolja DK5KK, Zik DK8ZZ and Wil PE3T will participate in the IOTA Contest (**July 29th-30th**) as **PE55TEX** from Texel Island (EU-038). All QSOs will be confirmed automatically via the bureau, LoTW and eQSL. There will be some activity before the contest as PA/home-call.

-[425DXN # 1679 July 8, 2023] (0728-0804)

**PJ4, BONAIRE.** Robert, PD2V is QRV as **PJ4/PD2V** from Kralendijk **until August 11th**.

Activity is on 40, 30, and 20 meters using SSB and FT8. QSL via LoTW.

-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0811)

**PY, BRAZIL.** Renato, PY8WW will be active as **PX8Z** from Cotijuba Island (SA-060) from **July 28th to August 1st**, including an entry in the IOTA contest (July 29th-30th). QSL via [ClubLog's OQRS](#) (preferred), or direct to [PY8WW](#).

-[425DXN # 1682 July 29, 2023] (0728-0804)

**PY, BRAZIL.** Operators PY6HD and PY6TV are QRV as **PR6T** from Tinhare Island, IOTA SA-080, **until July 30th**. Activity is on 40, 20, 15, and 10 meters using CW, SSB, and FT8. This includes being an entry in the RSGB IOTA contest (July 29th-30th). QSL via LoTW.

-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0804)

**SM, SWEDEN.** A 3-man team from Taby Sandaramatorer (SKØMT), namely Palle SAØBYP, Thomas SMØCXU and Mel SMØMPV - will be active as **SK3T** from Agon Island (EU-176) on **July 27th-31st**, including an entry in the IOTA contest (July 29th-30th).

-[425DXN # 1682 July 29, 2023] (0728-0804)

**SM, SWEDEN.** Members of EDR Ballerup will be active as **SM7/OZ5BAL** from Ven Island (EU-137) on **July 28th-30th**, including participation in the IOTA Contest (July 29th-30th).

Before the contest they will be QRV on 30, 17 and 12m, and will also operate digital modes. QSL via LoTW, [ClubLog's OQRS](#), eQSL, or via [OZØJ](#).

-[425DXN # 1680 July 15, 2023] (0728-0804)

**SV, GREECE.** Kostas, SV8GGI is QRV as **SV8GGI/p** from Salamina Island, IOTA EU-075, in the RSGB IOTA contest (**July 29th-30th**). QSL via bureau.

-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0804)

**TF, ICELAND.** Mek, SP7VC and Kasia, SQ7OYL will be active as **TF/SP7VC** during an extensive tour of Iceland from **July 27th to August 17th**. Look for activity on 50, 70 and 144 MHz, as well as on 20 meters.

-[425DXN # 1680 July 15, 2023] (0721-0818)

**TG, GUATEMALA.** Dennis, KT8X will be active holiday style as **TG4/KT8X** from Guatemala from **July 23rd to August 4th**. Plans are to operate CW, FT8 and possibly some

SSB on 40-6 meters. QSL via LoTW only. [TNX NG3K]  
-[425DXN # 1680 July 15, 2023] (0721-0804)

**TK, CORSICA.** Frans, DJØTP will be active again as **TK/DJØTP** from the main island of Corsica (EU-014) from **July 27th to September 3rd**. QSL via [DJØTP](#) and LoTW.  
-[425DXN # 1681 July 22, 2023] (0721-0825)

**UA9, ASIATIC RUSSIA.** Anton, RGØC, will be active from Bolshoy Shantar Island (AS-044) as **RGØC/p** beginning **July 27th until August 10th** on 20m (CW) with a solar-powered rig. QRV between 1000z and 2200z. QSL via [RGØC](#).  
-[DXNL # 2364 July 26, 2023] (0728-0811)

**V7, MARSHALL ISLANDS.** Bob, WØRGC is QRV as **V7/WØRGC** from Kwajalein Island for about two to three weeks. Activity is in his spare time on 20, 15, and 10 meters using SSB. QSL to [WØRGC](#).  
-[ARRL DX Bulletin # 28 July 13, 2023] (0714-0804)

**VE, CANADA.** A group of Canadian operators pay a visit to Petete-Ile-au-Marteau (NA-176) from **July 22nd to 30th**, operating as **VB2M** on 80-6m (CW, SSB, FT8), including the IOTA Contest. QSL via OQRS, LoTW.  
-[DXNL # 2363 July 19, 2023] (0721-0804)

**VP5, TURKS & CAICOS ISLANDS.** Josiah, [KISUBT](#) and John, [N5VOF](#) will be QRV as **VP5/KISUBT** and **VP5/N5VOF**, respectively, from Providenciales, IOTA NA-002, from **July 31st to August 14th**. Activity will be on 40 to 2 meters using SSB and FT8. QSL direct to home calls.  
-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0818)

**VU, INDIA.** Special event station **AT3MOON** is QRV to highlight the launch of Chandrayaan-3, the Indian moon mission. Activity is on various bands using some SSB and FT8 at various times. QSL via [VU2UUU](#).  
-[ARRL DX Bulletin # 30 July 27, 2023] (0728-0818)

**XW, LAOS.** Simon, HSØZIB (ex XZ2A), has now moved to Luang Prabang in Laos and operates as **XWØLP**, currently only on 20m on FT8, he hopes to add antennas for other bands; 80, 30, and 6m are not permitted in Laos though. QSL via [EA5GL](#).  
-[DXNL # 2364 July 26, 2023] (0728-0818)

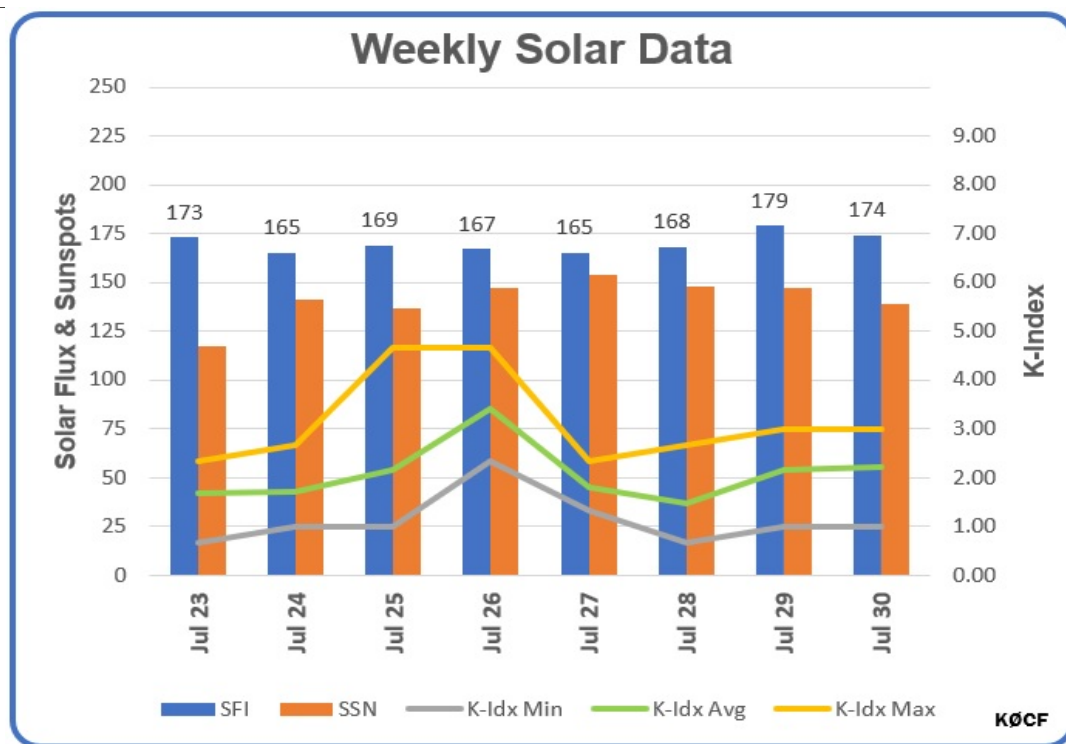
**XZ, MYANMAR.** Akio, JE2QIZ is QRV as **XZ2B** from Yangon **until the end of September**. Activity is on 15, 12, 10, and 6 meters using CW. QSL via [JH3SIF](#).  
-[ARRL DX Bulletin # 29 July 20, 2023] (0721-0825)

**YB, INDONESIA.** Edi **YB3EDD/p** (QSL via [EA7FTR](#)), Beng **YC3GZY/p** (QSL via [YC3GZY](#)), Ali **YC3RNW/p** (QSL via [YC3RNW](#)), and Nurrachmad **YF3BVD/p** (QSL via eQSL, LoTW) will be active from Gili Ketapang (OC-237) during the RSGB IOTA contest (**July 29th-30th**).  
-[DXNL # 2364 July 26, 2023] (0728-0804)

**Z2, ZIMBABWE.** Eddy, OE3SEU is QRV as **Z21MV** through August. He is active on Satellite QO-100 using SSB. QSL via LoTW.  
-[ARRL DX Bulletin # 28 July 13, 2023] (0714-0818)

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## Propagation



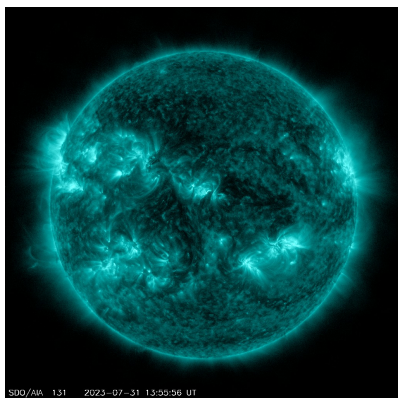
July 31, 2023

The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (K-Idx) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.



Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!

## Propagation Summary

Monday, July 31st.

For the week of July 23rd through Sunday, July 30th:

The average solar flux was down 15 points from the previous week, with a weekly high of 179 on Saturday, July 29th, following a low of 165 on July 27th.

The average sunspot count was up by 16 points for the week, peaking at 154 on Thursday, July 27th after a weekly low of 117 on July 23rd.



The Planetary K-index weekly maximum was 4.7 on Wednesday, July 26th, with an average of 3.2 for the week. The result was generally quiet geomagnetic conditions.

Solar flare activity since July 23rd has been high with 11 flares, the largest of which was an M 4.6 event on Wednesday, July 26th.

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares and the predicted 10.7 cm Solar Flux for the next 3 days. NOAA updates this information daily.

| Date     | M-Flares | X-Flares | Solar Flux |
|----------|----------|----------|------------|
| July 31  | 55%      | 5%       | 170        |
| August 1 | 55%      | 5%       | 165        |
| August 2 | 55%      | 5%       | 165        |

Looking ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days. This data is updated by NOAA every Monday.

| Date   | Flux | Kp |
|--------|------|----|
| Jul 31 | 160  | 2  |
| Aug 1  | 165  | 2  |
| Aug 2  | 165  | 2  |
| Aug 3  | 165  | 3  |

| Date  | Flux | Kp |
|-------|------|----|
| Aug 4 | 165  | 3  |
| Aug 5 | 170  | 2  |
| Aug 6 | 175  | 2  |
| Aug 7 | 180  | 2  |

| Date   | Flux | Kp |
|--------|------|----|
| Aug 8  | 180  | 2  |
| Aug 9  | 180  | 2  |
| Aug 10 | 180  | 3  |
| Aug 11 | 175  | 3  |

### Solar Flares This Week (As of 8:31 AM July 31, 2023)

| #  | Date   | UTC  | Mag.  |
|----|--------|------|-------|
| 1  | Jul 31 | 0900 | M 1.6 |
| 2  | Jul 30 | 0814 | M 1.8 |
| 3  | Jul 29 | 1625 | M 1.4 |
| 4  | Jul 28 | 1558 | M 4.1 |
| 5  | Jul 27 | 2234 | M 1.7 |
| 6  | Jul 27 | 0951 | M 1.9 |
| 7  | Jul 26 | 1559 | M 2.0 |
| 8  | Jul 26 | 1037 | M 4.6 |
| 9  | Jul 26 | 0428 | M 1.2 |
| 10 | Jul 25 | 2116 | M 1.6 |
| 11 | Jul 25 | 0204 | M 1.5 |

### Highs for Cycle 25

Solar Flux: 234 on January 15, 2023.

Sunspots: 227 on July 11, 2023.

### Favorite Propagation web sites

Excellent Maximum Usable Frequency map: <https://prop.kc2g.com/>  
<https://www.spaceweather.com/>

<https://www.solarham.net/>  
<https://dx.qsl.net/propagation/>

## A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!

-[Compiled from information on NOAA.gov and other sources]

## Selected Upcoming Contests

| Contest                         | Start  |       | End    |       | Web Site              |
|---------------------------------|--------|-------|--------|-------|-----------------------|
| RSGB IOTA Contest               | Jul 29 | 1200Z | Jul 30 | 1200Z | <a href="#">Rules</a> |
| 10-10 Int. Summer Contest, SSB  | Aug 5  | 0001Z | Aug 6  | 2359Z | <a href="#">Rules</a> |
| North American QSO Party, CW    | Aug 5  | 1800Z | Aug 6  | 0600Z | <a href="#">Rules</a> |
| WAE DX Contest, CW              | Aug 12 | 0000Z | Aug 13 | 2359Z | <a href="#">Rules</a> |
| Maryland-DC QSO Party           | Aug 12 | 1400Z | Aug 13 | 0400Z | <a href="#">Rules</a> |
| Kentucky State Parks on the Air | Aug 12 | 1400Z | Aug 12 | 2200Z | <a href="#">Rules</a> |
| North American QSO Party, SSB   | Aug 19 | 1800Z | Aug 20 | 0600Z | <a href="#">Rules</a> |
| ARRL Rookie Roundup, RTTY       | Aug 20 | 1800Z | Aug 20 | 2359Z | <a href="#">Rules</a> |
| Hawaii QSO Party                | Aug 26 | 0400Z | Aug 28 | 0400Z | <a href="#">Rules</a> |
| World Wide Digi DX Contest      | Aug 26 | 1200Z | Aug 27 | 1200Z | <a href="#">Rules</a> |
| YO DX HF Contest                | Aug 26 | 1200Z | Aug 27 | 1200Z | <a href="#">Rules</a> |
| Kansas QSO Party                | Aug 26 | 1400Z | Aug 27 | 2000Z | <a href="#">Rules</a> |
| Ohio QSO Party                  | Aug 26 | 1600Z | Aug 27 | 0400Z | <a href="#">Rules</a> |

|                                   |        |       |        |       |                       |
|-----------------------------------|--------|-------|--------|-------|-----------------------|
| All Asian DX Contest, Phone       | Sep 2  | 0000Z | Sep 3  | 2400Z | <a href="#">Rules</a> |
| CWOps CW Open                     | Sep 2  | 0000Z | Sep 2  | 2359Z | <a href="#">Rules</a> |
| Colorado QSO Party                | Sep 2  | 1300Z | Sep 3  | 0400Z | <a href="#">Rules</a> |
| Tennessee QSO Party               | Sep 3  | 1800Z | Sep 4  | 0300Z | <a href="#">Rules</a> |
| WAE DX Contest, SSB               | Sep 9  | 0000Z | Sep 10 | 2359Z | <a href="#">Rules</a> |
| North American Sprint, CW         | Sep 10 | 0000Z | Sep 10 | 0359Z | <a href="#">Rules</a> |
| Scandinavian Activity Contest, CW | Sep 16 | 1200Z | Sep 17 | 1200Z | <a href="#">Rules</a> |
| Texas QSO Party                   | Sep 16 | 1400Z | Sep 17 | 2000Z | <a href="#">Rules</a> |
| Washington State Salmon Run       | Sep 16 | 1600Z | Sep 17 | 2400Z | <a href="#">Rules</a> |
| New Jersey QSO Party              | Sep 16 | 1600Z | Sep 17 | 0359Z | <a href="#">Rules</a> |
| New Hampshire QSO Party           | Sep 16 | 1600Z | Sep 17 | 2200Z | <a href="#">Rules</a> |
| Wisconsin Parks on the Air        | Sep 16 | 1600Z | Sep 16 | 2300Z | <a href="#">Rules</a> |
| North American Sprint, RTTY       | Sep 17 | 0000Z | Sep 17 | 0359Z | <a href="#">Rules</a> |
| CQ Worldwide DX Contest, RTTY     | Sep 23 | 0000Z | Sep 24 | 2400Z | <a href="#">Rules</a> |
| Maine QSO Party                   | Sep 23 | 1200Z | Sep 24 | 1200Z | <a href="#">Rules</a> |
| UK/EI DX Contest, SSB             | Sep 30 | 1200Z | Oct 1  | 1200Z | <a href="#">Rules</a> |

-[Contest data courtesy of the [WA7BNM Contest Calendar](#) ]